

IN THE CLAIMS

Please cancel claims 1, 2, 6-15, 18-22 and 27-39 without prejudice.

Please amend the following claims.

1. (Cancelled)

2. (Cancelled)

3. (Currently Amended) ~~The device of claim 2, An on-die device comprising:~~
~~a control unit to provide differential reference signals; and~~
~~a first detector unit to receive said differential reference signals and to provide a first~~
~~signal indicative of a differential voltage fluctuation at a first component, wherein said~~
~~control unit comprises a voltage generator to receive a first reference voltage signal and a~~
~~second reference signal from a source external to said die, said voltage generator to~~
~~provide a control voltage reference signal, and~~

wherein said control unit further comprises a programmable voltage-to-current converter to receive said control voltage reference signal and to provide said differential reference signals based at least on said control voltage reference signal.

4. (Original) The device of claim 3, wherein said programmable voltage-to-current converter adjusts said differential reference signals determining a threshold value of said differential voltage fluctuation.

5. (Original) The device of claim 3, wherein said control unit includes logic to apply digital filtering to fluctuation indicator signals from said detector unit.

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Currently Amended) The device of claim 15; An on-die device to determine voltage fluctuations, said devices to compare differential reference signals and monitored voltage signals at a first area of said die, wherein said device comprises:
a control unit to provide said differential reference signals; and
a first detector unit to receive said differential reference signals and to provide a first signal indicative of a differential voltage fluctuation at said first area,
wherein said control unit comprises a voltage generator to receive a first reference voltage signal and a second reference signal from a source external to said die, said voltage generator to provide a control voltage reference signal, and
wherein said control unit further comprises a programmable voltage-to-current converter to receive said control voltage reference signal and to provide said differential reference signal based at least on said control voltage reference signal.
17. (Original) The device of claim 16, wherein said programmable voltage-to-current converter adjusts said differential reference signals determining a threshold value to said differential voltage fluctuation.
18. (Cancelled)
19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Currently Amended) ~~The device of claim 22, A device to monitor voltage fluctuation, said device comprising:~~

a control unit to generate reference signals;

a first detector unit to receive said reference signals and to receive first voltage signals from a first device under test, said first detector unit to provide a first signal indicative of voltage fluctuation based on said reference signals and said first voltage signals; and

a second detector unit to receive said reference signals and to receive second voltage signals from a second device under test, said second detector unit to provide a second signal indicative of voltage fluctuation based on said reference signals and said second voltage signals.

wherein said device is provided on-die, and

wherein said control unit comprises a voltage generator and a programmable voltage-to-current converter, said voltage generator to receive a first reference voltage signal and a second reference signal from at least a source external to said die, said voltage generator to produce a control voltage reference signal, said programmable voltage-to-current converter to receive said control voltage reference signal and to provide said reference signals.

24. (Original) The device of claim 23, wherein said programmable voltage-to-current converter adjusts said reference signals based on a threshold value of voltage fluctuation.

25. (Original) The device of claim 24, wherein said reference signals comprise differential current signals.

26. (Original) The device of claim 22, wherein said control unit comprises a voltage generator and a programmable voltage-to-current converter, said voltage generator to receive a first reference voltage signal and a second reference signal from at least a source internal to said die, said voltage generator to produce a control voltage reference signal,

said programmable voltage-to-current converter to receive said control voltage reference signal and to provide said reference signals.

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Cancelled)

REMARKS

Claim Rejections - 35 U.S.C. §§ 102/103

The Examiner has rejected claims 1, 2, 6-11, 13-15, 18-20 and 30-39 under 35 U.S.C. § 102(b) as being anticipated by Shimada et al. (US Patent 5,050,190). The Examiner has rejected claim 12, 21, 22 and 27-29 under 35 U.S.C. § 103(a) as being unpatentable over Shimada et al. (US Patent 5,050,190).

Claims 3-5, 16, 17 and 23-26 have been objected to as being dependent upon a rejected base claim, but have been indicated allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Applicant has amended claims 3-5, 16, 17 and 23-26 in independent form including all limitations of the base claims and intervening claims and as such, are now in a condition for allowance. In order to expedite allowance of the above referenced case, Applicant has cancelled rejected claims 1, 2, 6-15, 18-22 and 27-39 without prejudice or disclaimer and reserves the right to seek protection of claims 1, 2, 6-15, 18-22 and 27-39 in a continuation application.

Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

Respectfully submitted,

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